

Name _____ Date _____

2.2 SIMPLIFYING RADICAL EXPRESSIONS

Simplify each radical expression

1. $\sqrt{45} =$
2. $\sqrt{20} =$
3. $\sqrt{32a^{17}} =$
4. $\sqrt{90a^9} =$
5. $\sqrt{48a^{15}} =$
6. $\sqrt{44a^5} =$
7. $\sqrt{63a^{13}b^9} =$
8. $\sqrt{80a^{17}b^{14}} =$
9. $\sqrt{50a^{11}b^6c^{19}} =$
10. $\sqrt{54a^7b^{13}c^4} =$
11. $\sqrt[3]{48} =$
12. $\sqrt[3]{-128} =$
13. $\sqrt[3]{81a^{17}} =$
14. $\sqrt[3]{-40a^{10}} =$
15. $\sqrt[3]{54a^{16}b^{22}} =$
16. $\sqrt[3]{-125a^{13}b^{24}} =$
17. $\sqrt[3]{56a^8b^{29}} =$
18. $\sqrt[3]{108a^{14}b^5} =$
19. $\sqrt[3]{-72a^{25}b^{12}c^{17}} =$
20. $\sqrt[3]{216a^{13}b^{21}c^6} =$